

**Summary Minutes of the Clean Air Scientific Advisory Committee (CASAC)  
National Ambient Air Monitoring Strategy (NAAMS) Subcommittee  
Pre-Meeting Public Teleconference**

**July 1, 2003, 1:00 – 3:00 P.M. Eastern Time (EST)  
Room 6013, Ariel Rios Federal Building North  
1200 Pennsylvania Ave., N.W., Washington, DC 20460**

Panel Members: See Panel Roster – Appendix A

Date and Time: Tuesday, July 1, 2003, 1:00 – 3:00 P.M. EST (Scheduled)

Location: Room 6013, Ariel Rios Federal Building North,  
1200 Pennsylvania Ave., N.W., Washington, DC 20460

Purpose: The purpose of this teleconference was to address any outstanding questions that members of the CASAC National Ambient Air Monitoring Strategy (NAAMS) Subcommittee and others might have concerning the proposed charge to the NAAMS Subcommittee, the NAAMS review materials, and meeting logistics, in preparation for the face-to-face meeting to be held on July 8-9, 2003 in Research Triangle Park, North Carolina.

Attendees: Chair: Dr. Philip Hopke

CASAC Members: Mr. Richard Poirot  
Dr. George Taylor

Consultants: Dr. David Diaz-Sanchez  
Mr. Craig Beskid  
Mr. Bart Croes  
Dr. Kenneth Demerjian  
Dr. Rudolf Husar  
Dr. Armistead (Ted) Russell  
Dr. Roger L. Tanner  
Dr. Warren H. White

Consultants  
Not present: Dr. Praveen Amar

EPA SAB Staff: Mr. Fred Butterfield, Designated Federal Officer (DFO)  
Dr. Vanessa Vu, SAB Staff Office Director  
Ms. Vickie Richardson, SAB Staff Office  
Ms. Maggie Rodriguez, Meeting Planner/Logistics  
Specialist, Mega-Tech Inc. (MTI)  
Dr. Rich Scheffe, U.S. EPA, OAQPS  
Dr. Mike Papp, U.S. EPA, OAQPS

## Meeting Summary

The meeting began at 1:00 P.M. and lasted until approximately 1:30 P.M. on Tuesday, July 1, 2003. There was no published agenda for this teleconference, nor was there a public comment session.

## Convene Meeting, Attendance, Introduction, Administration and Purpose of Meeting

Mr. Fred Butterfield, Designated Federal Officer (DFO) for the CASAC, convened the teleconference, welcomed participants, and briefly reviewed the call agenda. He added that the teleconference is held pursuant to the Federal Advisory Committee Act (FACA) requirements as outlined in 41 CFR Parts 101-6 and 102-3, including the requirement for public notice and an open meeting. Minutes were taken and will be available after being certified, although no transcript was recorded. All members of the CASAC NAAMS Subcommittee had submitted confidential financial disclosure forms, which were reviewed and approved by the Agency's ethics officials.

Mr. Butterfield reviewed meeting logistics and the purpose of the meeting (see Page 1 above), and introduced the CASAC (and CASAC NAAMS Subcommittee) Chair, Dr. Phil Hopke. All members of the CASAC NAAMS Subcommittee introduced themselves as well. Mr. Butterfield also introduced Dr. Rich Scheffe, Team Leader of the Monitoring and Quality Assurance Group within EPA's Office of Air Quality Planning and Standards (OAQPS), the Agency's program contact. Dr. Scheffe was present on the conference call to answer any questions concerning the draft NAAMS document.

## Discussion

One Subcommittee member asked a question concerning the timetable/dates for the publication of the final NAAMS (strategy) document. Dr. Scheffe responded that OAQPS will update that timeline upon completion of the document review by this CASAC subcommittee.

In response to a question from another Subcommittee member, Dr. Hopke informed the Subcommittee that, as a departure from standard practice within CASAC, there would be no individual "reading assignments" for this draft NAAMS document within each individual member's area(s) of specialization — rather, that we needed every member's perspective on the entire strategy document (*i.e.*, the broad view). Dr. Hopke also noted that there was no logical way to simply "break-up" this document in any event. Finally, he asked all Subcommittee members to send their comments electronically to the DFO by no later than noon on Monday, July 7, and also bring their set of written comments on the draft document with them to the meeting. Mr. Butterfield will compile these individual member's comments and attach them as appendices to the CASAC NAAMS Subcommittee's report on the July 8 and 9 meeting.

Dr. Scheffe gave clarification that the NAAMS summary document is the focus of next week's review, and that the additional nine sections should "inform" this review and discussion. In reply to a member's question, Dr. Scheffe also clarified the charge to the CASAC subcommittee, that is: providing consultation to EPA on the technical bases and design aspects of the NAAMS.

In particular, the Subcommittee will be asked to provide a formal consultation on the following elements of the strategy:

- (a) The NCore proposal, including conceptual approach to tiered monitoring levels, recommended measurements and numbers and locations of Level 2 sites. Consideration to phasing of measurements included in Level 2 sites should be addressed based on currently available and expected emerging monitoring technologies. The Subcommittee is also requested to advise on the scope and breadth of research-grade Level 1 sites.
- (b) The use of spatial analysis approaches for network design and other air program planning needs. The monitoring strategy has utilized various spatial design approaches on National and Regional scales to identify areas of redundant monitoring as well as gaps requiring additional monitoring.
- (c) The use of performance-based approaches for standardizing monitoring method requirements for particulate matter measurements. Performance-based approaches rely on applying data quality objectives to determine the allowable statistical uncertainties for instrument performance. This third subject area has evolved from discussions with the existing CASAC Subcommittee on Particulate Monitoring, and plays an important role in facilitating accommodation of new technologies into air monitoring networks.

In addition, Dr. Scheffe noted that the Subcommittee would be asked to comment on NAAMS implementation steps. He remarked that the strategy itself is very broad, touching “many bases,” and that OAQPS was seeking advice and recommendations on how to keep the strategy focused over time.

Dr. Hopke added that the NAAMS document states where we are now (that is, the state of the Nation’s ambient air quality monitoring networks), and that the Subcommittee must assist the Agency in helping to keep it moving in the right direction. Dr. Hopke noted that this review presented an excellent opportunity to ensure that the Agency developed and maintained an effective air monitoring strategy as we move into the future.

Ms. Vickie Richardson of the SAB Staff Office, and Ms. Maggie Rodriguez, a meeting planner and logistics specialist with Mega-Tech Inc., gave a brief update on the logistics for the next week’s meeting, which was to take place at the EPA Campus, Building C, Main Auditorium (Room C111), in Research Triangle Park, North Carolina.

#### Summary, Wrap-up, Next Steps and Closing Remarks

At approximately 1:30 P.M., given that there were no additional questions, the DFO thanked all participants and adjourned the teleconference.

**Action Items:**

- The DFO will re-send Dr. Phil Hopke's e-mail message of June 23 to all CASAC NAAMS Subcommittee members reiterating his perspectives with respect to not having individual member reading and comment assignments.

Respectfully Submitted:

Certified as True:

---

Fred A. Butterfield, III  
CASAC DFO

---

Philip Hopke, Ph.D.  
CASAC Chair

## **Appendix A – Roster of the CASAC NAAMS Subcommittee**

---

**U.S. Environmental Protection Agency  
Science Advisory Board (SAB) Staff Office  
Clean Air Scientific Advisory Committee (CASAC)  
National Ambient Air Monitoring Strategy (NAAMS) Subcommittee\***

### **CHAIR**

**Dr. Philip Hopke**, Bayard D. Clarkson Distinguished Professor, Department of Chemical Engineering, Clarkson University, Potsdam, NY

Also Member: Research Strategies Advisory Committee  
Executive Committee

### **CASAC MEMBERS**

**Mr. Richard L. Poirot**, Environmental Analyst, Air Pollution Control Division, Department of Environmental Conservation, Vermont Agency of Natural Resources, Waterbury, VT

**Dr. George E. Taylor**, Professor and Assistant Dean, School of Computational Sciences, George Mason University, Fairfax, VA

### **CONSULTANTS**

**Dr. Praveen Amar**, Director, Science and Policy, Northeast States for Coordinated Air Use Management (NESCAUM)

**Mr. Craig Beskid**, Executive Director, Mickey Leland National Urban Air Toxics Research Center, Houston, TX

**Mr. Bart Croes**, Chief, Research Division, California Air Resources Board, Sacramento, CA

**Dr. Kenneth Demerjian**, Professor and Director, Atmospheric Sciences Research Center, State University of New York, Albany, NY

**Dr. David Diaz-Sanchez**, Research Immunologist, University of California at Los Angeles, Los Angeles, CA

**Dr. Rudolf Husar**, Professor, Mechanical Engineering, Engineering and Applied Science, Washington University, St. Louis, MO

**Dr. Armistead (Ted) Russell**, Georgia Power Distinguished Professor of Environmental Engineering, Environmental Engineering Group, School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, GA

**Dr. Roger L. Tanner**, Principal Scientist, Air, Land and Water Sciences Department,  
Environmental Research & Technology Assessments, Tennessee Valley Authority (TVA),  
Muscle Shoals, AL

**Dr. Warren H. White**, Visiting Professor, Crocker Nuclear Laboratory, University of California  
- Davis, Davis, CA

**SCIENCE ADVISORY BOARD STAFF**

**Mr. Fred Butterfield**, Designated Federal Officer, 1200 Pennsylvania Avenue, NW,  
Washington, DC, 20460, Phone: 202-564-4561, Fax: 202-501-0582, ([butterfield.fred@epa.gov](mailto:butterfield.fred@epa.gov))

\* Members of this SAB Panel consist of:

- a. SAB Members: Experts appointed by the Administrator to serve on one of the SAB Standing Committees; and
- b. SAB Consultants: Experts appointed by the SAB Staff Director to a one-year term to serve on ad hoc Panels formed to address a particular issue.